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5,600,672

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Day : Thursday

Date: 3/8/2007
Time: 09:43:09 PALM INTRANET

Continuity Information for 09/686467

Parent Data09686467is a division of 09244037Which is a reissue of 08240521Which is a continuation in part of 07857627**Child Data**09672946 is a division of 09244037[!\[\]\(e3275251d0893157c3584e20c81dc3ba_img.jpg\) Application](#) [!\[\]\(9ab0e0ed3a1c2d865b438a931465ce60_img.jpg\) Contents](#) [!\[\]\(cad03033ab873d30d908af7ccf65e600_img.jpg\) Reunion Info](#) [!\[\]\(228855918ab8a8f7108e4981e0b34184_img.jpg\) Atty/Agent Info](#) [!\[\]\(510b99c730283855faafe9fc79cf072a_img.jpg\) Continuity/Reexam](#) [!\[\]\(ce55b34809184a87b6d2a5fd186daf36_img.jpg\) Foreign Data](#)

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Day : Thursday

Date: 3/8/2007
Time: 09:43:36**PALM INTRANET****Application Number Information**

Application Number: 09/244037

Examiner Number: 76772 / HA, DAC

Assignments

Filing or 371(c) Date: 02/04/1999 eDan

Group Art Unit: 2611 IFW IMAGE

Effective Date: 02/04/1999

Class/Subclass: 375/219.000

Application Received: 02/04/1999

Lost Case: NO

Patent Number:

Interference Number:

Issue Date: 00/00/0000

Unmatched Petition: NO

Date of Abandonment: 00/00/0000

L&R Code: Secrecy Code:1

Attorney Docket Number: 169/MU-1296/

Third Level Review: NO

Status: 90 /ALLOWED -- NOTICE OF ALLOWANCE NOT YET
MAILED

Secrecy Order: NO

Status Date: 08/15/2005

Confirmation Number: 3295

Oral Hearing: NO

Title of Invention: COMMUNICATION SYSTEM

Bar Code	PALM Location	Location Date	Charge to Loc	Charge to Name	Employee Name	Location
09244037BA	28C1	09/12/2006	No Charge to Location	No Charge to Name	NGUYEN,HUY	RND/00/A 41

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Day : Thursday

Date: 3/8/2007

Time: 09:43:46

PALM INTRANET**Continuity Information for 09/244037****Parent Data**09244037is a reissue of 08240521Which is a continuation in part of 07857627**Child Data**09662695 is a division of 0924403709666012 is a division of 0924403709667438 is a division of 0924403709667525 is a division of 0924403709668068 is a division of 0924403709669916 is a division of 0924403709672946 is a division of 0924403709672947 is a continuation in part of 0785762709677421 is a division of 0924403709678014 is a division of 0924403709680176 is a division of 0924403709680177 is a division of 0924403709686463 is a division of 0924403709686464 is a division of 0924403709686465 is a division of 0924403709686466 is a division of 0924403709686467 is a division of 0924403709688028 is a division of 0924403710133347 is a reissue of 0824052110133364 is a division of 0966269510635468 is a continuation of 0968646310693526 is a division of 0968017610782411 is a division of 0968646510860666 is a reissue of 08240521[Applicant Info](#)[Contents](#)[Patent Info](#)[Att'y/Agent Info](#)[Continuity/Reexam](#)[Foreign Data](#)Search Another: Application# or Patent# PCT / / or PG PUBS # Attorney Docket # Bar Code #

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Day : Thursday

Date: 3/8/2007
Time: 09:43:58 **PALM INTRANET****Application Number Information**Application Number: **08/240521**Examiner Number: **71232 / PHAN, HAI****Assignments**Filing or 371(c) Date: **05/10/1994** eDanGroup Art Unit: **2614** IFW IMAGEEffective Date: **05/10/1994**Class/Subclass: **375/219.000**Application Received: **05/10/1994**Lost Case: **NO**Patent Number: **5600672**

Interference Number:

Issue Date: **02/04/1997**Unmatched Petition: **NO**Date of Abandonment: **00/00/0000**L&R Code: Secrecy Code: **1**Attorney Docket Number: **169MU1296P95**Third Level Review: **NO**Secrecy Order: **NO**Status: **150 /PATENTED CASE**Status Date: **01/27/1997**Confirmation Number: **8164**Oral Hearing: **NO**Title of Invention: **COMMUNICATION SYSTEM**

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Query/Command : prt max legalall

1/1 PLUSPAT - ©QUESTEL-ORBIT - image

PN -  US5600672 A 19970204 [US5600672]
TI - (A) Communication system
PA - (A) MATSUSHITA ELECTRIC IND CO LTD (JP)
PA0 - Matsushita Electric Industrial Company, Ltd., Osaka [JP]
IN - (A) OSHIMA MITSUAKI (JP); SAKASHITA SEIJI (JP)
AP - US24052194 19940510 [1994US-0240521]
FD - C.I.P. of US857627 19920325 [1992US-0857627]
PR - US24052194 19940510 [1994US-0240521]
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IC - (A) H04B-001/38 H04L-005/16
ICAA - G11B-020/00 [2006-01 A - I R M EP]; H04L-001/00 [2006-01 A - I R M EP];
 H04L-027/02 [2006-01 A - I R M EP]; H04L-027/04 [2006-01 A - I R M EP];
 H04L-027/18 [2006-01 A - I R M EP]; H04L-027/26 [2006-01 A - I R M EP];
 H04L-027/34 [2006-01 A - I R M EP]; H04L-027/38 [2006-01 A - I R M EP];
 H04N-005/44 [2006-01 A - I R M EP]; H04N-007/24 [2006-01 A - I R M EP];
 H04N-007/26 [2006-01 A - I R M EP]; H04N-007/54 [2006-01 A - I R M EP]
 G11B-023/28 [2006-01 A - N R M EP]; G11B-027/034 [2006-01 A - N R M EP];
 G11B-027/10 [2006-01 A - N R M EP]; H04N-007/015 [2006-01 A - N R M EP]
ICCA - G11B-020/00 [2006 C - I R M EP]; H04L-001/00 [2006 C - I R M EP]; H04L-
 027/02 [2006 C - I R M EP]; H04L-027/18 [2006 C - I R M EP]; H04L-027/26
 [2006 C - I R M EP]; H04L-027/34 [2006 C - I R M EP]; H04L-027/38 [2006 C
 - I R M EP]; H04N-005/44 [2006 C - I R M EP]; H04N-007/24 [2006 C - I R M
 EP]; H04N-007/26 [2006 C - I R M EP]; H04N-007/52 [2006 C - I R M EP]
 G11B-023/28 [2006 C - N R M EP]; G11B-027/031 [2006 C - N R M EP];
 G11B-027/10 [2006 C - N R M EP]; H04N-007/015 [2006 C - N R M EP]
EC - G11B-020/00P
 H04L-001/00B
 H04L-027/02
 H04L-027/04
 H04L-027/18M
 H04L-027/26M1
 H04L-027/26M1E
 H04L-027/34
 H04L-027/34M
 H04L-027/38N2

H04N-005/44N
 H04N-007/24A
 H04N-007/24C14
 H04N-007/26E
 H04N-007/54

ICO - S11B-023/28
 S11B-027/034
 S11B-027/10A1
 T04L-001/00B7C1

PCL - ORIGINAL (O) : 375219000; CROSS-REFERENCE (X) : 375270000
 375301000 375321000

DT - Basic

CT - US5164963
 Shanmugam, "Digital and Analog Communication Systems" 1979, p. 272.

STG - (A) United States patent

AB - At the transmitter side, carrier waves are modulated according to an input signal for producing relevant signal points in a signal space diagram. The input signal is divided into, two, first and second, data streams. The signal points are divided into signal point groups to which data of the first data stream are assigned. Also, data of the second data stream are assigned to the signal points of each signal point group. A difference in the transmission error rate between first and second data streams is developed by shifting the signal points to other positions in the space diagram expressed at least in the polar coordinate system. At the receiver side, the first and/or second data streams can be reconstructed from a received signal. In TV broadcast service, a TV signal is divided by a transmitter into low and high frequency band components which are designated as first and second data streams respectively. Upon receiving the TV signal, a receiver can reproduce only the low frequency band component or both the low and high frequency band components, depending on its capability. Furthermore, a communication system based on an OFDM system is utilized for data transmission of a plurality of subchannels, wherein the subchannels are differentiated by changing the length of a guard time slot or a carrier wave interval of a symbol transmission time slot, or changing the transmission electric power of the carrier.

1/1 LGST - ©EPO

PN -  US5600672 A 19970204 [US5600672]

AP - US24052194 19940510 [1994US-0240521]

ACT - 19961010 US/AS02-A
 ASSIGNMENT OF ASSIGNEE'S INTEREST
 OWNER: MATSUSHITA ELECTRIC INDUSTRIAL CO., LTD. 1006, KAD;
 EFFECTIVE DATE: 19960910

19961010 US/AS02-A
 ASSIGNMENT OF ASSIGNEE'S INTEREST
 OWNER: OSHIMA, MITSUAKI; EFFECTIVE DATE: 19960910

19961010 US/AS02-A

ASSIGNMENT OF ASSIGNOR'S INTEREST
OWNER: SAKASHITA, SEIJI; EFFECTIVE DATE: 19960910

19990420 US/RF-A
REISSUE APPLICATION FILED
EFFECTIVE DATE: 19990204

20001114 US/RF-A
REISSUE APPLICATION FILED
EFFECTIVE DATE: 20000915

20001128 US/RF-A
REISSUE APPLICATION FILED
EFFECTIVE DATE: 20001012

20001226 US/RF-A
REISSUE APPLICATION FILED
EFFECTIVE DATE: 20001005

20010102 US/RF-A
REISSUE APPLICATION FILED
EFFECTIVE DATE: 20001012

20010130 US/RF-A
REISSUE APPLICATION FILED
EFFECTIVE DATE: 20001012

20010213 US/RF-A
REISSUE APPLICATION FILED
EFFECTIVE DATE: 20000929

20010313 US/RF-A
REISSUE APPLICATION FILED
EFFECTIVE DATE: 20000925

20010403 US/RF-A
REISSUE APPLICATION FILED
EFFECTIVE DATE: 20000925

20010501 US/RF-A
REISSUE APPLICATION FILED
EFFECTIVE DATE: 20000929

20010522 US/RF-A
REISSUE APPLICATION FILED
EFFECTIVE DATE: 20001005

20010605 US/RF-A
REISSUE APPLICATION FILED
EFFECTIVE DATE: 20001005

20020611 US/RF-A
REISSUE APPLICATION FILED
EFFECTIVE DATE: 20020429

20020702 US/RF-A
REISSUE APPLICATION FILED
EFFECTIVE DATE: 20020429

20021008 US/RF-A
REISSUE APPLICATION FILED
EFFECTIVE DATE: 20000921

20040113 US/RF-A
REISSUE APPLICATION FILED
EFFECTIVE DATE: 20031027

20040203 US/RF-A
REISSUE APPLICATION FILED
EFFECTIVE DATE: 20031022

20040413 US/RF-A
REISSUE APPLICATION FILED
EFFECTIVE DATE: 20031024

20040504 US/RF-A
REISSUE APPLICATION FILED
EFFECTIVE DATE: 20020209

20040928 US/RF-A
REISSUE APPLICATION FILED
EFFECTIVE DATE: 20040223

20041109 US/RF-A
REISSUE APPLICATION FILED
EFFECTIVE DATE: 20040220

20041214 US/RF-A
REISSUE APPLICATION FILED
EFFECTIVE DATE: 20040707

20041214 US/RF-A
REISSUE APPLICATION FILED
EFFECTIVE DATE: 20040701

20050301 US/RF-A
REISSUE APPLICATION FILED
EFFECTIVE DATE: 20040604

20050308 US/RF-A
REISSUE APPLICATION FILED
EFFECTIVE DATE: 20040805

20050510 US/RF-A
REISSUE APPLICATION FILED
EFFECTIVE DATE: 20030807

20050628 US/RF-A
REISSUE APPLICATION FILED
EFFECTIVE DATE: 20050119

UP - 2005-27

111 CRXX - ©CLAIMS/RRX

PN - 5,600,672 A 19970204 [US5600672]
PA - Matsushita Electric Industrial Co Ltd JP
ACT - 19990204 REISSUE REQUESTED
ISSUE DATE OF O.G.: 19990420
REISSUE REQUEST NUMBER: 09/244037
EXAMINATION GROUP RESPONSIBLE FOR REISSUEPROCESS: 2614

Reissue Patent Number:

20000915 REISSUE REQUESTED
ISSUE DATE OF O.G.: 20001114
REISSUE REQUEST NUMBER: 09/662695
EXAMINATION GROUP RESPONSIBLE FOR REISSUEPROCESS: 2614

Reissue Patent Number:

20000919 REISSUE REQUESTED
ISSUE DATE OF O.G.: 20001114
REISSUE REQUEST NUMBER: 09/666012
EXAMINATION GROUP RESPONSIBLE FOR REISSUEPROCESS: 2614

Reissue Patent Number:

20000921 REISSUE REQUESTED
ISSUE DATE OF O.G.: 20001114
REISSUE REQUEST NUMBER: 09/667438
EXAMINATION GROUP RESPONSIBLE FOR REISSUEPROCESS: 2614

Reissue Patent Number:

20000921 REISSUE REQUESTED
ISSUE DATE OF O.G.: 20010102
REISSUE REQUEST NUMBER: 09/667525
EXAMINATION GROUP RESPONSIBLE FOR REISSUEPROCESS: 2614

Reissue Patent Number:

20000921 REISSUE REQUESTED
ISSUE DATE OF O.G.: 20021008
REISSUE REQUEST NUMBER: 09/667438
EXAMINATION GROUP RESPONSIBLE FOR REISSUEPROCESS: 2614

Reissue Patent Number:

20000925 REISSUE REQUESTED
ISSUE DATE OF O.G.: 20010313
REISSUE REQUEST NUMBER: 09/668068
EXAMINATION GROUP RESPONSIBLE FOR REISSUEPROCESS: 2614

Reissue Patent Number:

20000925 REISSUE REQUESTED
ISSUE DATE OF O.G.: 20010403
REISSUE REQUEST NUMBER: 09/669916
EXAMINATION GROUP RESPONSIBLE FOR REISSUEPROCESS: 2614

Reissue Patent Number:

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ISSUE DATE OF O.G.: 20010213
REISSUE REQUEST NUMBER: 09/672948
EXAMINATION GROUP RESPONSIBLE FOR REISSUEPROCESS: 2614

Reissue Patent Number:

20000929 REISSUE REQUESTED
ISSUE DATE OF O.G.: 20010501
REISSUE REQUEST NUMBER: 09/672947
EXAMINATION GROUP RESPONSIBLE FOR REISSUEPROCESS: 2614

Reissue Patent Number:

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ISSUE DATE OF O.G.: 20001128
REISSUE REQUEST NUMBER: 09/678014
EXAMINATION GROUP RESPONSIBLE FOR REISSUEPROCESS: 2614

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ISSUE DATE OF O.G.: 20001226
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EXAMINATION GROUP RESPONSIBLE FOR REISSUEPROCESS: 2614

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ISSUE DATE OF O.G.: 20001226
REISSUE REQUEST NUMBER: 09/677421
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ISSUE DATE OF O.G.: 20010605
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EXAMINATION GROUP RESPONSIBLE FOR REISSUEPROCESS: 2614

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REISSUE REQUEST NUMBER: 09/686464
EXAMINATION GROUP RESPONSIBLE FOR REISSUEPROCESS: 2614

Reissue Patent Number:

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REISSUE REQUEST NUMBER: 09/688028
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Reissue Patent Number:

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REISSUE REQUEST NUMBER: 09/686463
EXAMINATION GROUP RESPONSIBLE FOR REISSUEPROCESS: 2614

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ISSUE DATE OF O.G.: 20010102
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ISSUE DATE OF O.G.: 20010130
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EXAMINATION GROUP RESPONSIBLE FOR REISSUEPROCESS: 2614

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REISSUE REQUEST NUMBER: 10/133347
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EXAMINATION GROUP RESPONSIBLE FOR REISSUEPROCESS: 2614

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20031022 REISSUE REQUESTED
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REISSUE REQUEST NUMBER: 10/690297
EXAMINATION GROUP RESPONSIBLE FOR REISSUEPROCESS: 2614

Reissue Patent Number:

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ISSUE DATE OF O.G.: 20040413
REISSUE REQUEST NUMBER: 10/692469
EXAMINATION GROUP RESPONSIBLE FOR REISSUEPROCESS: 2614

Reissue Patent Number:

20031027 REISSUE REQUESTED
ISSUE DATE OF O.G.: 20040113
REISSUE REQUEST NUMBER: 10/693526
EXAMINATION GROUP RESPONSIBLE FOR REISSUEPROCESS: 2614

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Reissue Patent Number:

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REISSUE REQUEST NUMBER: 10/783588
EXAMINATION GROUP RESPONSIBLE FOR REISSUEPROCESS: 2631

Reissue Patent Number:

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ISSUE DATE OF O.G.: 20050301
REISSUE REQUEST NUMBER: 10/860666
EXAMINATION GROUP RESPONSIBLE FOR REISSUEPROCESS: 2614

Reissue Patent Number:

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ISSUE DATE OF O.G.: 20041214
REISSUE REQUEST NUMBER: 2614
EXAMINATION GROUP RESPONSIBLE FOR REISSUEPROCESS:

Reissue Patent Number:

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ISSUE DATE OF O.G.: 20041214
REISSUE REQUEST NUMBER: 10/885572
EXAMINATION GROUP RESPONSIBLE FOR REISSUEPROCESS: 2614

Reissue Patent Number:

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ISSUE DATE OF O.G.: 20050308
REISSUE REQUEST NUMBER: 10/911680
EXAMINATION GROUP RESPONSIBLE FOR REISSUEPROCESS: 2614

Reissue Patent Number:

20050119 REISSUE REQUESTED
ISSUE DATE OF O.G.: 20050628

REISSUE REQUEST NUMBER: 11/038006
EXAMINATION GROUP RESPONSIBLE FOR REISSUEPROCESS: 2614

Reissue Patent Number:

Search statement 3

February 4, 1997

Communication system

REISSUE: September 21, 2000 - Reissue Application filed Ex. Gp.: 2614; Re. S.N. 09/667,438 (O.G. October 8, 2002)
April 29, 2002 - Reissue Application filed Ex. Gp.: 2614; Re. S.N. 10/133,347 (O.G. July 2, 2002)
April 29, 2002 - Reissue Application filed Ex. Gp.: 2614; Re. S.N. 10/133,364 (O.G. June 11, 2002)
October 5, 2000 - Reissue Application filed Ex. Gp.: 2614; Re. S.N. 09/680,177 (O.G. June 5, 2001)
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September 29, 2000 - Reissue Application filed Ex. Gp.: 2614; Re. S.N. 09/672,947 (O.G. May 1, 2001)
September 25, 2000 - Reissue Application filed Ex. Gp.: 2614; Re. S.N. 09/669,916 (O.G. April 3, 2001)
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October 12, 2000 - Reissue Application filed Ex. Gp.: 2614; Re. S.N. 09/686,465 (O.G. January 30, 2001)
October 12, 2000 - Reissue Application Filed Ex. Gp.: 2614; Re. S.N. 09/686,467 (O.G. January 2, 2001)
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5,600,672 OR 5600672

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